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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/675,980	09/29/2000	Arthur Zavalkovsky	50325-0106		
7	590 03/27/2006		EXAM	INER	
Hickman Palerm	o Truong & Becker LLP		BATES, I	CEVIN T	
1600 Willow Stree	et	•	ART UNIT	PAPER NUMBER	
San Jose, CA 9512	25-5106		2155		
			DATE MAILED: 03/27/200	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 602 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 602 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/27/2006

Hickman Palermo Truong & Becker LLP 1600 Willow Street San Jose, CA 95125-5106 EXAMINER

BATES, KEVIN T

ART UNIT PAPER NUMBER

2155

DATE MAILED: 03/27/2006

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

09/675,980 09/29/2000 Arthur Zavalkovsky 50325-0106 1727

TITLE OF INVENTION: MARKING NETWORK DATA PACKETS WITH DIFFERENTIATED SERVICES CODEPOINTS BASED ON NETWORK LOAD

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE
 PUBLICATION FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 NO
 \$1400
 \$0
 \$1400
 06/27/2006

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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maintenance fee notification CURRENT CORRESPONDENCE	S. E ADDRESS (Note: Use Block I for	any change of address)		Note: A certificate of	f mailing can only be used for	or domestic mailings of the		
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Hickman Palermo 1600 Willow Street San Jose, CA 9512:		LP		I hereby certify that States Postal Service	ertificate of Mailing or Trans this Fee(s) Transmittal is bein, with sufficient postage for fir ail Stop ISSUE FEE address PTO (571) 273-2885, on the c	g deposited with the United		
						(Depositor's name)		
						(Signature)		
						(Date)		
APPLICATION NO.	APPLICATION NO. FILING DATE			VENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/675,980 09/29/2000			Arthur Zaval	kovsky	50325-0106	1727		
TITLE OF INVENTION: M LOAD	MARKING NETWORK DA	ATA PACKETS W	VITH DIFFERE	NTIATED SERVICES C	ODEPOINTS BASED ON N	ETWORK		
APPLN, TYPE	SMALL ENTITY	ISSUE FE	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE		
nonprovisional	NO	\$1400		\$0	\$1400	06/27/2006		
EXAM	INER	ART UN	IT	CLASS-SUBCLASS				
BATES, I	KEVIN T	2155		709-223000	_			
	e address or indication of "For ence address (or Change of 122) attached. ion (or "Fee Address" Indica or more recent) attached. Use	Correspondence	(1) the name or agents OR	g on the patent front page, s of up to 3 registered pate, alternatively, of a single firm (having as orney or agent) and the na latent attorneys or agents. I	ent attorneys 1			
Number is required.	or more recent) attached. Use	e of a Customer	listed, no name will be printed.					
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PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion	low, no assignee of this form is NOT	data will appear I a substitute for	on the patent. If an assig	gnee is identified below, the d	locument has been filed for		
(A) NAME OF ASSIGNI				CE: (CITY and STATE OR				
Please check the appropriate	assignee category or catego	ries (will not be pri	inted on the pate	nt): 🗖 Individual 🗖 (Corporation or other private gr	oup entity Government		
4a. The following fee(s) are	enclosed:		. Payment of Fe					
☐ Issue Fee	mall entity discount permitte	.d\	A check in the amount of the fee(s) is enclosed. Payment by credit card. Form PTO-2038 is attached.					
Advance Order - # of	Copies		The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Status			•		,			
	MALL ENTITY status. See		b. Applicant	is no longer claiming SM	ALL ENTITY status. See 37 C	FR 1.27(g)(2).		
The Director of the USPTO NOTE: The Issue Fee and Puinterest as shown by the reco	is requested to apply the Issuablication Fee (if required) words of the United States Pate	e Fee and Publicat vill not be accepted ent and Trademark	tion Fee (if any) I from anyone of Office.	or to re-apply any previou her than the applicant; a re	sly paid issue fee to the applica gistered attorney or agent; or the	ation identified above. he assignee or other party in		
Authorized Signature				Date				
Typed or printed name	-				No			
This collection of information an application. Confidentialisubmitting the completed apthis form and/or suggestions Box 1450, Alexandria, Virginal Alexandria, Virginia 22313-Under the Paperwork Reduct	n is required by 37 CFR 1.3 ty is governed by 35 U.S.C. plication form to the USPT for reducing this burden, sh nia 22313-1450. DO NOT 1450.	11. The information 122 and 37 CFR I O. Time will vary ould be sent to the SEND FEES OR C	n is required to of 1.14. This collect depending upon the Chief Informat COMPLETED Formand to a collect	obtain or retain a benefit by tion is estimated to take 12 the individual case. Any ion Officer, U.S. Patent an ORMS TO THIS ADDRES	the public which is to file (and minutes to complete, including comments on the amount of the Trademark Office, U.S. Dep SS. SEND TO: Commissioner the displays a valid OMB control.	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,		

	Application No.	Applicant(s)	plicant(s)	
	09/675,980	ZAVALKOVSKY ET	AL.	
Notice of Allowability	Examiner	Art Unit		
	Kevin Bates	2155		
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. X This communication is responsive to <u>12-1-05</u> .				
2. X The allowed claim(s) is/are <u>1-18, 21-35, 38-52, and 55-65</u>	renumbered to 1-59		N	
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which giv 5. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	e been received. e been received in Application No becoments have been received in this application to file a reply MENT of this application. Initial Note the attached EXAMINER res reason(s) why the oath or declarates to submitted. It is a submitted to son's Patent Drawing Review (PTO- If s Amendment / Comment or in the Comment or in the Comment of the drawing the header according to 37 CFR 1.121(Dosit of BIOLOGICAL MATERIAL I	national stage application of the foot of	quirements NOTICE OF	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	Paper No./Mail Da /08), 7. ☐ Examiner's Amend 8. ☑ Examiner's Statem 9. ☐ Other SAL	/ (PTO-413), ate ment/Comment	lowance	

Application/Control Number: 09/675,980

Art Unit: 2155

Response to Amendment

This Office Action is in response to a communication received on December 1, 2005.

Claims 1, 3, 5, 7, 9, 11, 13, 14, 24, 25, 41, 42, 58, 59 have been amended.

Claims 19, 20, 36, 37, 53, 54 have been cancelled.

Claims 1-18, 21-35, 38-52, and 55-65 are pending in this application.

Reason for Allowance

The following is an examiner's statement of reasons for allowance:

The primary reason for allowance is that the examiner has found that the prior art of record does not teach or suggest or render obvious a method, apparatus, device, or computer readable medium for using a router to mark a data flow with a first behavior value determining the achieved flow then marking the data flow with a second behavior value. More specifically, the prior art does not disclose or teach a network which receives a data flow through a router, having the router mark the data flow with a first behavior value. Then monitoring the achieved data flow and packet flow characteristics in the network and using those values to decide a new behavior value for a router in the system to later mark the data flow with which makes the network treat the data flow in a different manner from the first behavior value. Then continuing to repeat this process as the data flow continues in the network at each hop. These differences are present in the specification and are included in the independent claims 1, 5, 9, 13-14, 24-25, 41-42, and 58-59.

Application/Control Number: 09/675,980 Page 3

Art Unit: 2155

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- U. S. Patent No. 6826147 issued to Nandy, because it discloses monitoring achieved data flow in a differentiated services system.
- U. S. Patent No. 6028842 issued to Chapman, because it discloses dynamically changing packet classifications based up monitored data.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Bates whose telephone number is (571) 272-3980. The examiner can normally be reached on 8 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/675,980

Art Unit: 2155

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KB

KB January 12, 2006

SUPERVISORY PATENT EXAMINER

Page 4

INFORMATION DISCLOSURE CITATION ON IN AN APPLICATION

(PTO-1449)

ATTY. DOCKET NO. 50325-0106

SERIAL NO. 09/675,980

APPLICANT:

Arthur Zavalkovsky, et al.

FILING DATE: September 29, 2000 **GROUP:** 2155

	Cite No.1	U.S. Patent		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where
		Number	Kind Code ² (If known)		MM-DD-YYYY	Relevant Passages or Relevant Figures Appear
KB		5,968,176		Nessett et al.	10-19-1999	
_		6,009,081		Wheeler et al.	12-28-1999	
1		6,167,445		Gai et al.	12-26-2000	
1		6,401,240	B1	Summers	06-04-2002	
		6,442,151	B1	H'mimy et al.	08-27-2002	
1		6,483,805	B1	Davies et al.	11-19-2002	
		6,601,082	B1	Durham et al.	07-29-2003	
		6,611,864	B2	Putzolu et al.	08-26-2003	
\top		6,621,793	B2	Widegren et al.	09-16-2003	
\neg		6,622,170	B1	Harrison et al.	09-16-2003	
		6,651,191	B1	Vacante et al.	11-18-2003	
1		6,671,724	B1	Pandya et al.	12-30-2003	
1.	-	6,684,244	B1	Goldman et al.	01-27-2004	

Exam. Cite	Fo	Foreign Patent Document		Name of Patentee or Applicant	Date of	Pages,	T	
Initial*	No.¹	Office ³	Number ⁴	Kind Code ^s (If known)	of Cited Document	Publication of Cited Document MM-DD- YYYY	Columns, Lines, Where Relevant Passages or Relevant Figures Appear	

Examinar		Date Considered	
Examiner	102 -04	Date Commented	2/5//00
Ciamatura	190-1100	•	3/21/06
Signature	1,-		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Unique citation designation number. 'See attached Kinds of U.S. Patent Documents. 'Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). 'For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 'Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)						ATTY. DOCKET NO. SERIAL NO. 50325-0106 09/675,980 APPLICANT: Arthur Zavalkovsky, et al.				
	2 4 200	4 (3)				FILING DATE: September 29,		GROUP: 2155		
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Exam. Initial*	No.	U.S. Patent Document Number Kind Code ² (If known)			Name of Patente of Cited D	e or Applicant	Date of Publication Cited Docume MM-DD-YYY	nt Lines, V Y Relev Passag Relevant	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

		Notice of Reference	s Cited		Application 09/675,980		Reexaminat ZAVALKOV	
		Notice of Neterence	3 Cited		Examiner		Art Unit	Page 1 of 1
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				U.S. P	ATENT DOCU	MENTS		T
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY			Name		Classification
*	Α	US-6,028,842 A 02-2000 Chapman et al.						370/235
*	В	US-6,826,147 B1	11-2004	Nandy	et al.			370/229
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

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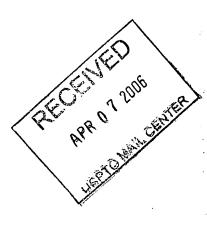


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